

AMENDMENTS TO THE CLAIMS

In the claims

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1. (currently amended) A computer program product comprising a computer-readable medium having stored thereon instructions for causing a computer to perform a process for assessing business solutions comprising alternative network architectures and management processes networks for a telecommunications network, the computer program product comprising instructions for:
 - (a) receiving data and options for plurality of network architectures [],[] and a management network, wherein the management network comprises network management processes [],[] and service and customer management processes;
 - (b) engineering the plurality of network architectures based on the data and options of (a);
 - (c) determining suppliers' equipment costs for said plurality of network architectures;
 - (d) engineering the network management processes and the service and customer management processes of the management network, based on the data and options of (a), for managing said plurality of network architectures;
 - (e) determining suppliers' management processes costs for the network management processes and the service and customer management processes of the management network;
 - (f) validating and calibrating the data and options and the costs for the plurality of network architectures [],[] and the costs for the network management processes [],[] and the service and customer management processes of the management network;
 - (g) determining, based on the costs of the plurality of network architectures and the management network management processes and the service and customer management processes, business parameters for the business solutions; and
 - (h) storing and displaying the business parameters for the business solutions for the telecommunications network.

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2. (previously presented) The computer program product as described in claim 1, wherein the instructions (a) comprise instructions for causing the computer to receive traffic data; customer data; and financial and labor data.

5 3. (previously presented) The computer program product as described in claim 2, wherein the instructions (a) further comprise instructions for causing the computer to:

- receive technology options which comprise at least one of: time division multiplexing (TDM), asynchronous transfer mode (ATM), frame relay (FR), Internet protocol (IP), virtual private network (VPN), multi protocol label switching (MPLS), and optical
- 10 Ethernet including fiber, synchronous optical network (SONET), resilience packet ring (RPR), and dense wavelength division multiplexing (DWDM) for a network architecture for a business solution;
- receive options for the network management processes which comprise at least one of: inside plant maintenance, outside plant maintenance, network engineering, network
- 15 provisioning, installation, testing, and repairs for managing the network architecture for the business solution; and
- receive options for the service and customer management processes which comprise at least one of: customer relationship management (CRM), work order management (WOM), network inventory management (NIM), service activation and provisioning
- 20 (SAP), fault management (FM), performance management (PM), accounting and billing, and security management for managing the network architecture for the business solution.

4. (previously presented) The computer program product as described in claim 1, wherein the instructions (g) comprise instructions for causing the computer to:

- compute the business parameters for the business solutions over a pre-determined study period; and
- determine business parameters which comprise at least one of: capital expenditure (CAPEX), wherein the CAPEX comprises a network architecture cost, taxes, interests, and depreciation and amortization (D/A) expenses; operational expenditure (OPEX),
- 30 wherein the OPEX comprises a management processes cost, a leasing cost, and sales,

general and administration (SG&A); revenue; capacity; return on investment (ROI);
earnings before interest, taxes, and depreciation and amortization (EBITDA); earnings
before interest and taxes (EBIT); the OPEX as percentage of the revenue; and total
expenditure as percentage of the revenue, wherein the total expenditure comprises the
5 CAPEX and the OPEX.

10 5. (previously presented) The computer program product as described in claim 3, wherein
the instructions (b) comprise instructions for causing the computer to engineer the network
architecture for the business solution.

15 6. (previously presented) The computer program product as described in claim 3, wherein
the instructions (d) comprise instructions for causing the computer to engineer the network
management processes and the service and customer management processes for managing
the network architecture for the business solution.

20 7. (previously presented) The computer program product as described in claim 4, wherein
the instructions (h) comprise instructions for causing the computer to display the business
parameters in tables and graphical charts for the business solutions over the pre-determined
study period.

25 8. (previously presented) The computer program product as described in claim 5, wherein
the instructions (c) comprise instructions for causing the computer to determine a network
architecture cost and a leasing cost for the network architecture for the business solution.

9. (previously presented) The computer program product as described in claim 8, wherein
the instructions (f) comprise instructions for causing the computer to validate and calibrate
the data and options; the network architecture cost; and the leasing cost for said network
architecture for the business solution.

30 10. (previously presented) The computer program product as described in claim 8, wherein
the instructions (b) further comprise instructions for causing the computer to determine an

owned network elements (NEs) count; a leased NEs count; an owned customer premise equipment (CPE) count; a leased CPE count; an owned links count; a leased links count; and a leased ports count for said network architecture; and wherein said network architecture has NEs, CPE, and links from the same or different equipment suppliers.

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11. (previously presented) The computer program product as described in claim 10, wherein the instructions (c) further comprise instructions for causing the computer to determine a price per network element (NE), a footprint per NE cost, a power consumption per NE cost; a price per CPE, a footprint per CPE cost, and a power consumption per CPE cost; and a price per link and a link transmission rate.
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12. (previously presented) The computer program product as described in claim 11, wherein the instructions for determining the network architecture cost comprise instructions for causing the computer to compute a total owned NEs cost; a total owned CPE cost; and a total owned links cost for said network architecture for the business solution; and wherein the instructions for determining the leasing cost comprise instructions for causing the computer to compute a total footprints cost and a total power consumptions cost for said owned NEs and CPE.
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20. 13. (previously presented) The computer program product as described in claim 10, wherein the instructions (c) further comprise instructions for causing the computer to determine a leased per NE cost, a footprint per NE cost, and a power consumption per NE cost; a leased per CPE cost, a footprint per CPE cost, and a power consumption per CPE cost; a leased per link cost; a leased link per unit length cost, a unit length per link count, and a link transmission rate; and a leased per port cost.
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14. (previously presented) The computer program product as described in claim 13, wherein the instructions for determining the leasing cost comprise instructions for causing the computer to compute a total leased NEs cost; a total leased CPE cost; a total footprints cost and a total power consumptions cost for said leased NEs and CPE; a total leased links cost;
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a total leased links per unit length cost; and a total leased ports cost for said network architecture for the business solution.

15. (previously presented) The computer program product as described in claim 6, wherein the instructions (e) comprise instructions for causing the computer to:

- determine a network management processes cost, wherein the network management processes cost comprises costs for inside plant maintenance, outside plant maintenance, network engineering, network provisioning, installation, testing, and repairs for each network element in the network architecture for the business solution;
- determine a service and customer management processes cost, wherein the service and customer management processes cost comprises costs for customer relationship management (CRM), work order management (WOM), network inventory management (NIM), service activation and provisioning (SAP), fault management (FM), performance management (PM), accounting and billing, and security management for each link in the network architecture for the business solution; and
- determine a management processes cost which comprises the network management processes cost and the service and customer management processes cost.

20 16. (previously presented) The computer program product as described in claim 15, wherein the instructions for engineering the network management processes comprise instructions for causing the computer to engineer at least one of the following processes: inside plant maintenance; outside plant maintenance; network engineering; network provisioning; installation; testing; and repairs.

25 17. (previously presented) The computer program product as described in claim 16, further comprises instructions for causing the computer to determine the network management processes cost for said network management processes for at least one of: a manual operations mode; a mechanized operations mode; and a manual and mechanized operations mode.

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18. (previously presented) The computer program product as described in claim 15, wherein
the instructions for engineering the service and customer management processes comprise
instructions for causing the computer to engineer at least one of the following processes:
customer relationship management (CRM); work order management (WOM); network
5 inventory management (NIM); service activation and provisioning (SAP); fault
management (FM); performance management (PM); accounting and billing; and security
management.

19. (previously presented) The computer program product as described in claim 18, further
10 comprises instructions for causing the computer to determine costs of the customer
relationship management (CRM); the work order management (WOM); the network
inventory management (NIM); the service activation and provisioning (SAP); the fault
management (FM); the performance management (PM); the accounting and billing; and
the security management for at least one of: a manual operations mode; a mechanized
15 operations mode; and a manual and mechanized operations mode.

20. (canceled)

21. (previously presented) The computer program product as described in claim 19, wherein
20 the instructions for engineering and determining the cost of the customer relationship
management (CRM) comprise instructions for causing the computer to engineer and
determine costs for at least one of: a work order entry and validation process; a service
delivery and work order processing process; a customer care process; a trouble ticketing
process; and a service assurance and performance reporting process.

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22. (previously presented) The computer program product as described in claim 19, wherein
the instructions for engineering and determining the cost of the work order management
(WOM) comprise instructions for causing the computer to engineer and determine costs for
at least one of: a work order processing process; a client management process; a report
30 management process; and an administration management process.

23. (previously presented) The computer program product as described in claim 19, wherein
the instructions for engineering and determining the cost of the network inventory
management (NIM) comprise instructions for causing the computer to engineer and
determine costs for at least one of: a customer, services, and resources association
management process; an equipment management process; and a network management
process.

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24. (previously presented) The computer program product as described in claim 19, wherein
the instructions for engineering and determining the cost of the service activation and
10 provisioning (SAP) comprise instructions for causing the computer to engineer and
determine costs for at least one of: a create a new service process; a customer association
process; a process for aligning and synchronizing with billing, maintenance, and
performance; and a resource discovery and database quires process.

15 25. (previously presented) The computer program product as described in claim 19, wherein
the instructions for engineering and determining the cost of the fault management (FM)
comprise instructions for causing the computer to engineer and determine costs for at least
one of: a trouble ticketing process; an isolate problem process; and an analysis and
resolution for service logic agreement (SLA) process.

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26. (previously presented) The computer program product as described in claim 19, wherein
the instructions for engineering and determining the cost of the performance management
(PM) comprise instructions for causing the computer to engineer and determine costs for at
least one of: a collect performance data process; a generate performance reports process;
25 and a validate service logic agreement (SLA) process.

27. – 39. (canceled).

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